

Design for sustainability (DfS) scorecard



With our DfS scorecard, we drive sustainability improvement during the product development process through multiple product sustainability criteria divided into seven impact areas.

Milli-Q® IQ 7003 Ultrapure and Pure Water Purification System



Ultimate ultrapure and pure water solution - less electricity, more compact and mercury-free UV lamps

Impact areas

Results



MATERIALS

26% system size reduction but 8% weight increase due to more efficient but heavier power supply
33% reduction of plastic for purification cartridges thanks to innovative IQnano® ion-exchange media



SUPPLIERS & MANUFACTURING

No change compared to baseline product in consideration of our DfS criteria



PACKAGING

Packaging weight reduction thanks to smaller system and purification cartridge
System's corrugated box with sustainable forestry certification. Protective inserts made of 100% bio-based polyethylene (PE) foam from sugar cane waste for the system and made of PE foam with a minimum of 50% recycled content for the Q-POD® and E-POD® water remote dispensers.



ENERGY & EMISSIONS

28% reduction of system electricity consumption thanks to optimization of components and processes as well as an embedded improved "Lab Close" mode



WATER

13% water reduction during system use thanks to new periodic EDI rinsing
Reduction of water consumption during system quality control thanks to the implementation of a new impermeability test by air instead of by water



USABILITY & INNOVATION

New innovative mercury-free UV oxidation lamps



CIRCULAR ECONOMY

The system is designed to be easily maintainable
Lower replacement frequency of purification consumables

Baseline product: ZRXQ003T0 – Milli-Q® Integral 3